



Progress Energy

10 CFR 50.36a
TS 5.6.3

APR 27 2005

SERIAL: BSEP 05-0020

U. S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2
Docket Nos. 50-325 and 50-324/License Nos. DPR-71 and DPR-62
Radioactive Effluent Release Report for 2004

Ladies and Gentlemen:

In accordance with 10 CFR 50.36a and Brunswick Steam Electric Plant (BSEP) Technical Specification 5.6.3, Carolina Power & Light Company, now doing business as Progress Energy Carolinas, Inc. submits the enclosed Radioactive Effluent Release Report for BSEP, Unit Nos. 1 and 2. This report covers the period from January 1, 2004, through December 31, 2004. During the reporting period, changes were made to the Offsite Dose Calculation Manual (ODCM). Therefore, in accordance with TS 5.5.1, the Radioactive Effluent Release Report includes a complete copy of the ODCM, Revision 28, in Enclosure 2.

No regulatory commitments are contained in this submittal. Please refer any questions regarding this submittal to Mr. Leonard R. Beller, Supervisor – Licensing/Regulatory Programs, at (910) 457-2073.

Sincerely,

Edward T. O'Neil
Manager – Support Services
Brunswick Steam Electric Plant

CRE/cre

Enclosures: (1) Radioactive Effluent Release Report for 2004
(2) Offsite Dose Calculation Manual, Revision 28

Progress Energy Carolinas, Inc.
Brunswick Nuclear Plant
P.O. Box 10429
Southport, NC 28461

FILED
4009

Document Control Desk
BSEP 05-0020 / Page 2

cc (with enclosures as noted):

U. S. Nuclear Regulatory Commission, Region II
ATTN: Dr. William D. Travers, Regional Administrator
Sam Nunn Atlanta Federal Center
61 Forsyth Street, SW, Suite 23T85
Atlanta, GA 30303-8931

U. S. Nuclear Regulatory Commission (w/o Enclosure 2)
ATTN: Mr. Eugene M. DiPaolo, NRC Senior Resident Inspector
8470 River Road
Southport, NC 28461-8869

U. S. Nuclear Regulatory Commission (**Electronic Copy Only**)
ATTN: Ms. Brenda L. Mozafari (Mail Stop OWFN 8G9)
11555 Rockville Pike
Rockville, MD 20852-2738

Ms. Jo A. Sanford (w/o Enclosure 2)
Chair - North Carolina Utilities Commission
P.O. Box 29510
Raleigh, NC 27626-0510